

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
29 December 2004 (29.12.2004)

PCT

(10) International Publication Number  
**WO 2004/113192 A1**

(51) International Patent Classification<sup>7</sup>: **B65D 75/36**,  
65/46, A45D 44/18, C08J 5/18, C08L 3/02, 3/04, 3/14,  
67/00, C09J 7/00, 103/00

[AU/AU]; Unit 2, 227-231 Fitzgerald Road, Laverton  
North, VIC 3026 (AU). **FINK, Mark** [AU/AU]; Unit 2,  
227-231 Fitzgerald Road, Laverton North, VIC 3026 (AU).

(21) International Application Number:  
PCT/AU2004/000794

(74) Agent: **MISCHLEWSKI, Darryl**; PO Box 1254, Cam-  
berwell, VIC 3124 (AU).

(22) International Filing Date: 21 June 2004 (21.06.2004)

(81) Designated States (*unless otherwise indicated, for every  
kind of national protection available*): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
2003903116 20 June 2003 (20.06.2003) AU

(71) Applicant (*for all designated States except US*): **PLAN-  
TIC TECHNOLOGIES LTD** [AU/AU]; Unit 2, 227-231  
Fitzgerald Road, Laverton North, VIC 3026 (AU).

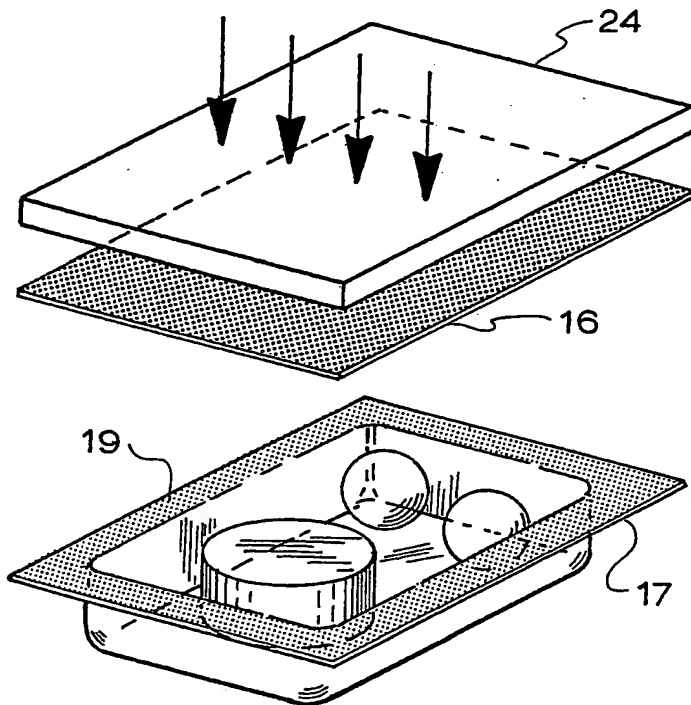
(84) Designated States (*unless otherwise indicated, for every  
kind of regional protection available*): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **MACINNES, David**

[Continued on next page]

(54) Title: **EASY OPEN WATER SOLUBLE BLISTER PACKAGE**



(57) Abstract: A blister package consists of a backing sheet (16) of cardboard, paper or plastic adhered to a blister (17) in which at least one or both of the backing sheet and the blister is made from a transparent water soluble thermoformable polymer composition. A tooth brush, cleaning utensil or garden utensil enclosed in the water soluble packaging material can be opened by placing it under running water. The packaging material is a thermoformable transparent water soluble starch or modified starch based polymer composition that is easily disintegrated by direct contact with water, and that biodegrades in waste water. The preferred starch is a high amylose maize starch. The starch can also be derived from wheat, potato, rice, oats, arrowroot and pea sources. The backing sheet is adhered to the blister by wetting the flange (19) with water and applying the backing sheet with the use of a press plate (24).

WO 2004/113192 A1

BEST AVAILABLE COPY



European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

**Published:**

— with international search report

BEST AVAILABLE COPY